

UNKNOWN FOUNDATION RISK ASSESSMENT WORKSHEET

FHWA Number: _____

Bridge ID: _____

Local Agency: _____

Completed By: _____

Program Manager: _____

Date Completed: _____

For each numbered question enter the number of points into the blank at the right. Each question should be answered. If a bridge falls into two categories, use the higher point value

Structures with risk assessment totals equal to or less than **25** points can be considered LOW RISK, **26-29** points can be considered MEDIUM RISK and greater than or equal to **30** points can be considered HIGH RISK.

1. SUPERSTRUCTURE TYPE

	<u>POINTS</u>	<u>POINTS GIVEN</u>
a. Continuous	2	
b. Multi Span	4	
c. Fracture Critical	6	
d. Single Span	8	
e. High Concrete Abutments	10	_____

2. ITEM #60 SUBSTRUCTURE COND. RATING

a. (7-9) Rating	1	
b. (5-6) Rating	2	
c. (1-4) Rating	3	_____

3. ITEM #61 CHANNEL COND. RATING

a. (7-9) Rating	1	
b. (5-6) Rating	2	
c. (1-4) Rating	3	_____

The USGS publication Water Resource Investigation Report 87-4132 defines a Hydrologic Region based on the slope of the topography and has equations that estimate the flood discharge. Utilize the USGS Region map and the drainage area for each structure in conjunction with the following guidelines to determine whether a bridge is low, medium or high risk for this category.

CAUTION: Within each region there are small watersheds that have topography which produces runoff characteristics of another region. Utilize the region that BEST represents the area in which the watershed lies.

4. GEOMORPHOLOGY /HYDROLOGY

(Hydrologic Region 1)

a. 5 sq. mi. or less	2	
b. 5 sq. mi. to 30 sq. mi.	4	
c. More than 30 sq. mi.	6	_____

(Hydrologic Region 2)

a. 15 sq. mi. or less	2	
b. 15 sq. mi. to 100 sq. mi.	4	
c. More than 100 sq. mi.	6	_____

(Hydrologic Region 3)

a. 30 sq. mi. or less	2	
b. 30 sq. mi. to 225 sq. mi.	4	
c. More than 225 sq. mi.	6	_____

(Hydrologic Region 4&5)

a. 100 sq. mi. or less	2	
b. 100 sq. mi. to 600 sq. mi.	4	
c. More than 600 sq. mi.	6	_____

5. TOPOGRAPHY

- | | | |
|--------------------------------|---|-------|
| a. Hydrologic Region 4&5 | 2 | |
| b. Hydrologic Region 3 | 4 | |
| c. Hydrologic Region 1&2 | 6 | _____ |

6. FUNCTIONAL CLASSIFICATION

- | | | |
|------------------------------------|---|-------|
| a. Level B Road | 1 | |
| b. Local Road/Minor Arterial | 2 | |
| c. Farm to Market | 3 | |
| d. Urban Arterial | 4 | _____ |

7. ITEM #19 DETOUR LENGTH

- | | | |
|-----------------------|---|-------|
| a. (< 4) Miles | 1 | |
| b. (4-10) Miles | 2 | |
| c. (10+) Miles | 3 | _____ |

8. ITEM #29 AVERAGE DAILY TRAFFIC

- | | | |
|-----------------------------------|---|-------|
| a. 25 Vehicles or Less | 2 | |
| b. 26-50 Vehicles | 4 | |
| c. Greater than 50 Vehicles | 6 | _____ |

RISK ASSESSMENT TOTAL: _____

SECONDARY LEVEL OF ASSESSMENT:

Bridge structures with an average daily traffic count greater than 50 vehicles per day cannot be considered low risk.

Bridge structures that historically experience roadway overtopping during flood events and have shown no signs of scour may be considered low risk.